The Essentials of SharePoint Disaster Recovery Planning



Sean P. McDonough (@spmcdonough) National Office 365 Solution Manager Cardinal Solutions Group, Inc.



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Albout

Mes

2/2



"How I got SharePoint chocolate in my DR peanut butter"



My background with disaster recovery (DR)

- started before I ever touched SharePoint
- began in the financial services & insurance industry

My background with SharePoint

- began in 2004 with SharePoint Portal Server 2003
- I switch between IT Pro and Developer hats

DR and SharePoint

- co-authored two SharePoint DR books
- regularly speak, blog, and "work" on DR topics

About this talk: why?

Most DR presentations I've seen (and delivered myself) focus on "how to" technical concerns ...

- How to implement backups
- How to establish high-availability

Not enough has been done to discuss the choices and processes that go into DR planning

· aka, the "non-gearhead" stuff



The prerequisites

This is a 100-level talk, so I don't assume much:

- you don't know much about DR (other than "it's a good idea for my organization")
- you are interested in the end-to-end DR process and more than just strictly technical concerns.

Don't take notes unless you really want to

http://SharePointInterface.com

In the time we have ...





The Agenda

- Discuss the "big picture"
- Analyze the DR process
- Explore how SharePoint and DR come together



"The Big Picture"

"The Big Picture"



many layers

"The Big Picture"



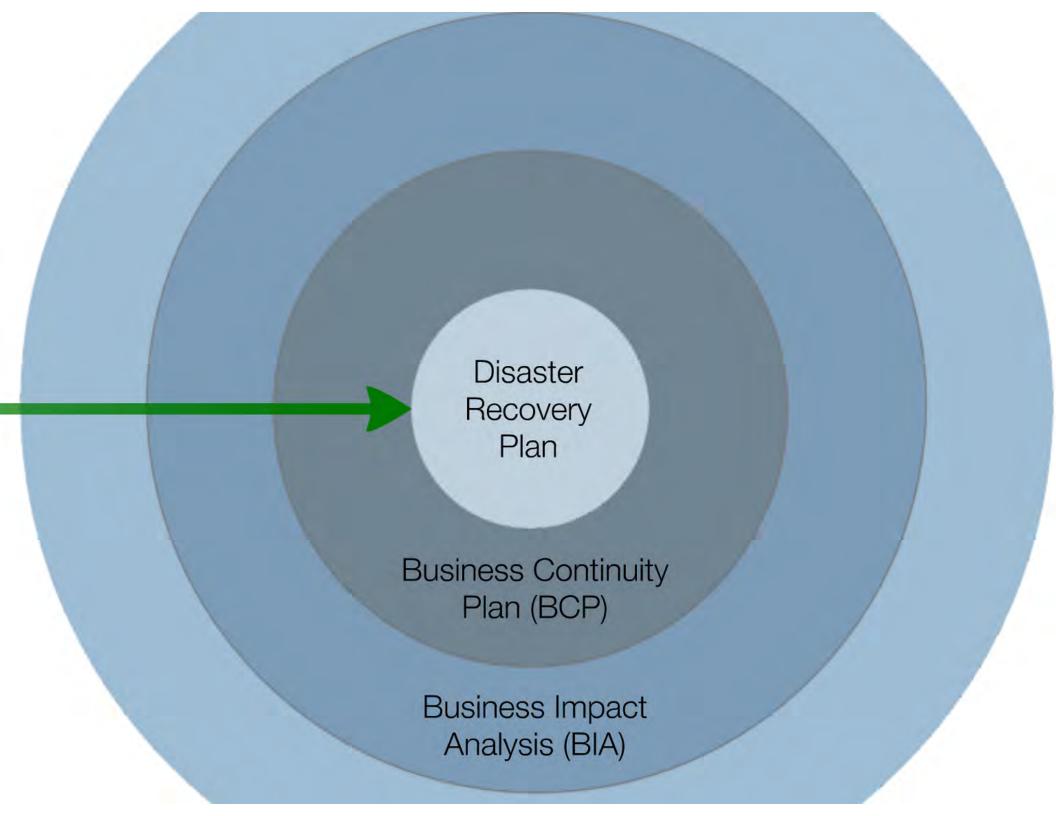
many layers

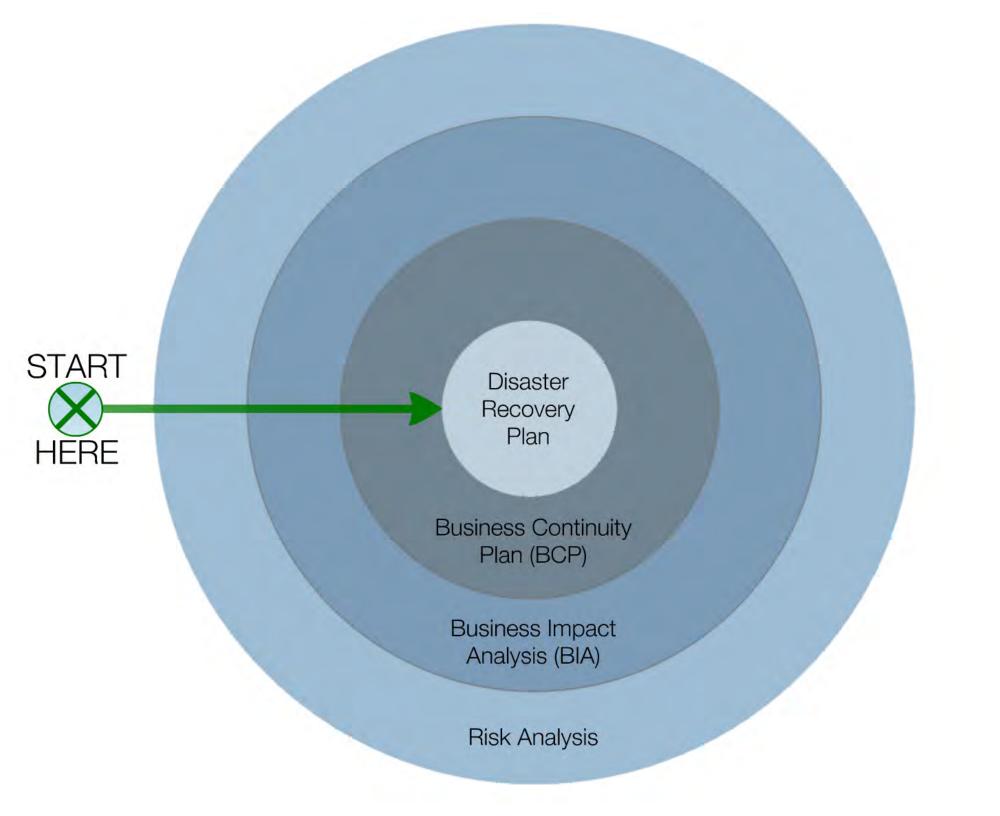
 you're probably going to cry as you peel them back

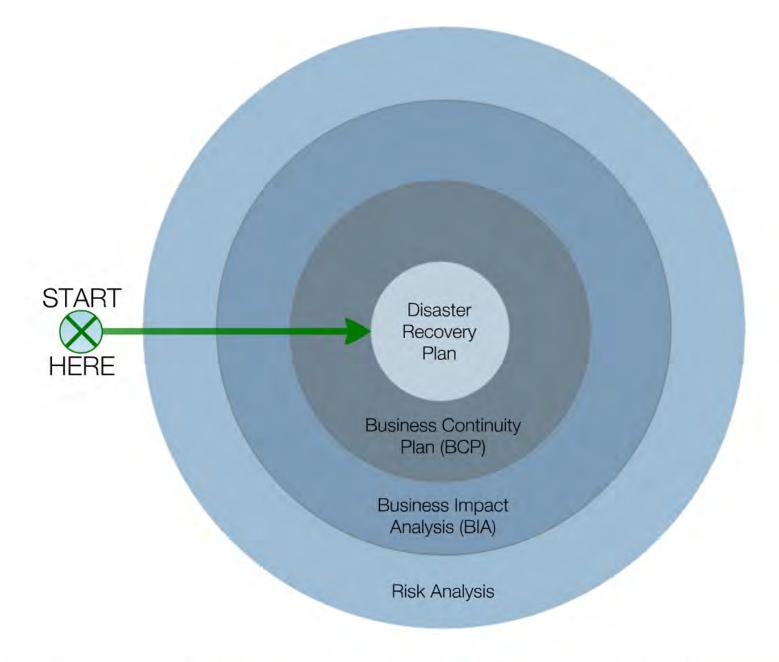
Disaster Recovery Plan

Disaster Recovery Plan

Business Continuity
Plan (BCP)









There's a lot that should happen before you ever get to an actual DR plan









Risk Analysis

Risk Analysis
Identifies and quartifies the probable threats to normal business operations and activity

What could go wrong?

- Primary data center is flooded
 Your network is cyberettacked
 The bulk of employees fall if
 Power is lost to your location (who is

Quantify it

What is the realistic probability of the event?
If the event occurs, how severe would the impact be?
Probability x Seventy - Overall Risk

BIA

A business in pact analysis maps risks to business processes and systems that would be affected if something were to go wrong.

What comes out of the BIA?

- What Collines out of the DIAY
 A document or native fact maps individual risks
 to the oriented business processes and systems
 had you for a directed
 An estimate of what earn enterprised processe or
 downed system high feet the organization,
 othershoes in civiles per hour \$1 m)
 Prodrimation of processes are; apprisen to protect
 Acceptable loss and downline windows

BCP

A business continuity plan addresses the findings of a BIA and defines processes to mitigate and/or minimize interruptions to normal business operations

What does a BCP cover?

Manual procedures and work ordereds to keep business moving in the absence of supporting systems
 Key information and logistical plans to address unavailable facilities, equipment, and personnel of communications plans
 Desister recovery plans

DR Plan

(Disaster recovery plans document requirements and steps for restoring systems to agreed-upon levels of functionality

DR Plan

What can be found in a plan?

- An overview of what the plan addresses and what it open it actives obtainly intendent?
 Recovery present value from the personnel what is personnel, which is referenced to dependent information systems. Tens it is recovery.
 Recovery present in the plan is recovery.
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 Recovery and the plan is recovery.
 Recovery and the plan is recovery.

Risk Analysis

Identifies and quantifies the probable threats to normal business operations and activity

What could go wrong?

- Primary data center is flooded
- Your network is cyberattacked
- The bulk of employees fall ill
- Power is lost to your location (who kicked the cord?)

Quantify it

- What is the realistic probability of the event?
- If the event occurs, how severe would the impact be?
- Probability x Severity = Overall Risk



Disaster Recovery Journal http://www.drj.com/

Good online reference for disaster recovery articles, whitepapers, and other resources.



A business impact analysis maps risks to business processes and systems that would be affected if something were to go wrong

What comes out of the BIA?

- A document or matrix that maps individual risks to one or more business processes and systems that would be affected
- An estimate of what each interrupted process or downed system might cost the organization, oftentimes in dollars per hour (\$/hr)
- Prioritization of processes and systems to protect
- Acceptable loss and downtime windows

e loss and downtime windows*



These are a key outputs from this phase of planning and will be used extensively in subsequent phases.



A business continuity plan addresses the findings of a BIA and defines processes to mitigate and/or minimize interruptions to normal business operations

What does a BCP cover?

- Manual procedures and work-arounds to keep business moving in the absence of supporting systems
- Key information and logistical plans to address unavailable facilities, equipment, and personnel
- Communications plans
- Disaster recovery plans



(Disaster) recovery plans document requirements and steps for restoring systems to agreed-upon levels of functionality

What can be found in a plan?

- An overview of what the plan addresses and what it doesn't address (equally important!)
- Recovery prerequisites (hardware, software, facilities, personnel, etc)
- References to dependent information/systems/items
- Procedures for recovery
- Measurable success criteria for recovery









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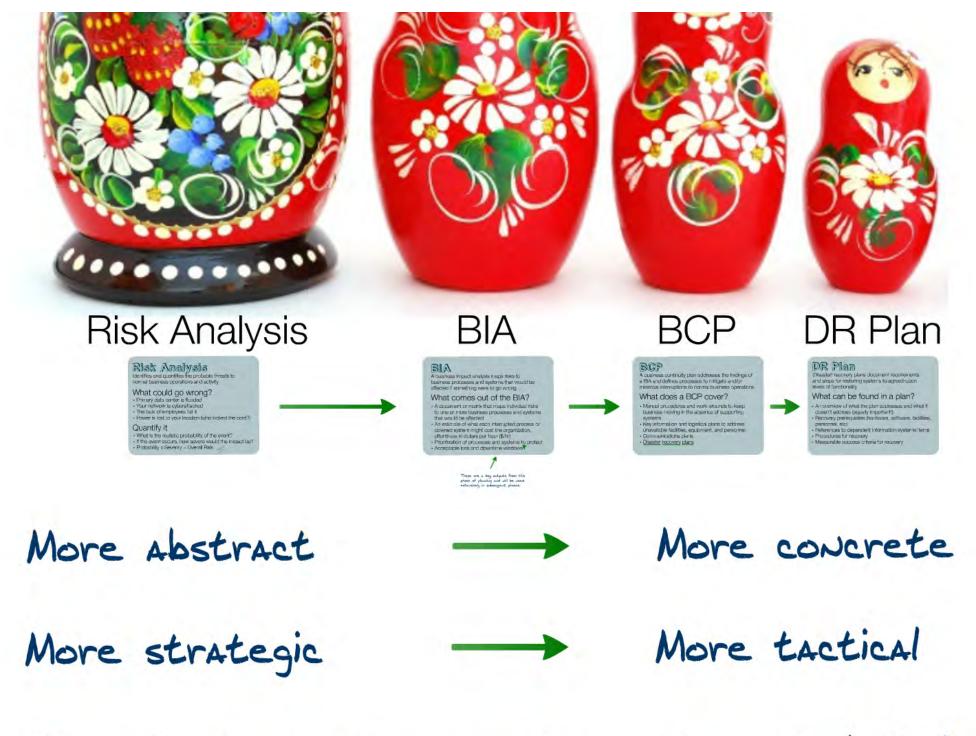
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More "business-y"

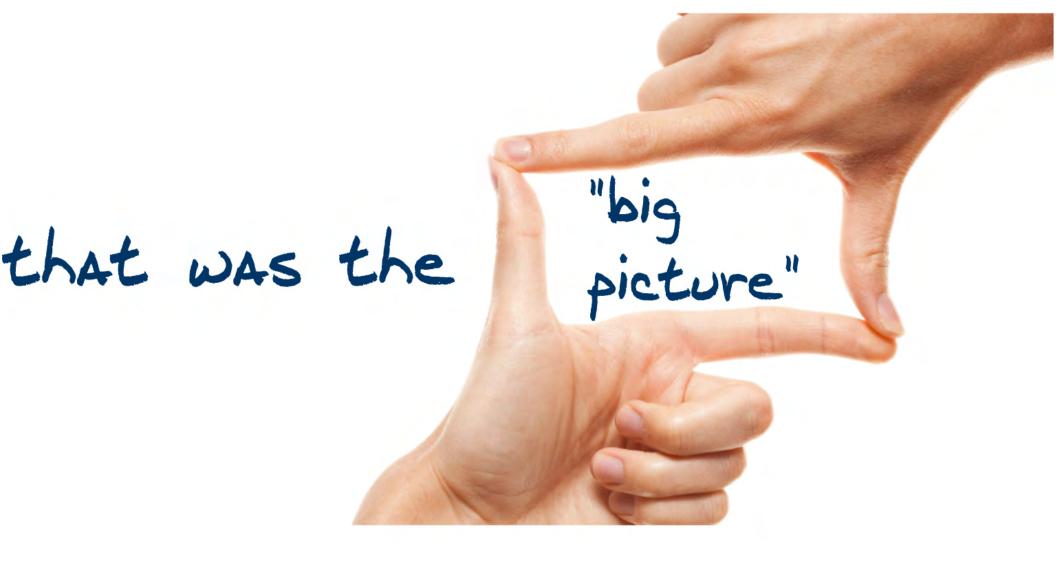
 \longrightarrow

More technical



Disclaimer

There are many approaches to quantifying disaster risks and building contingency plans; I'm presenting only one. Form isn't nearly as important as simply ensuring you have a strategy!



The focus going forward is on and

the DR Process



The focus going forward 18 OM 111

the DR Process



... which is driven by RPO and RTO requirements

This is a good point to define those acronyms

RPO

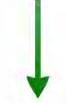
RTO

This is a good point to define those acronyms

RPO



Recovery Point Objective RTO



Recovery Time Objective

RPO

1

Recovery

Point

Objective

RTO



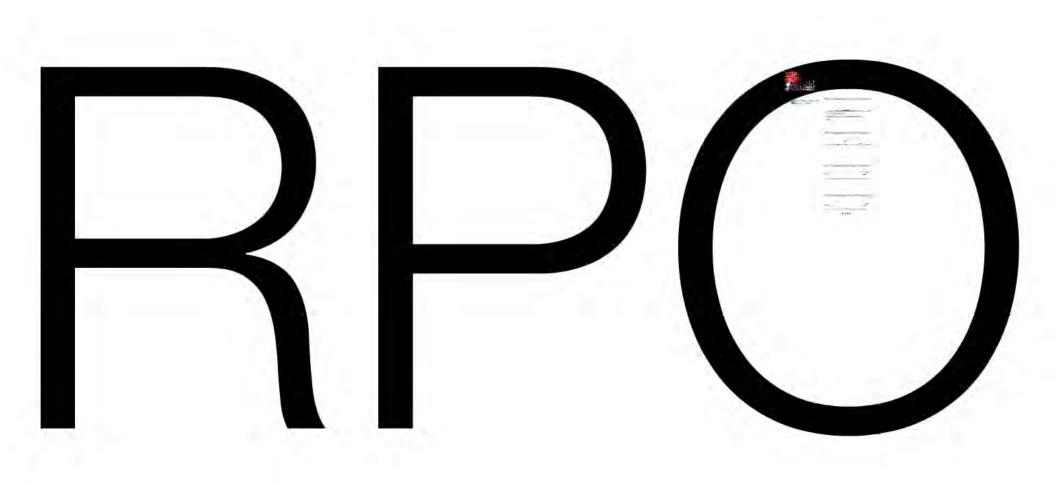
Recovery

Time

Objective

That's all great, but what do they really MEAN?

They define operational windows that guide and inform your selection of technologies and strategies for recovery



RPO (Recovery Point Objective)

Monday Jul 4 2011

1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM 10:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 9:00 PM 10:00 PM

- "looks backwards"
- defines maximum acceptable data loss

Monday Jul 4 2011 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00

ards"

9:00 AM

AM

mi im accenta



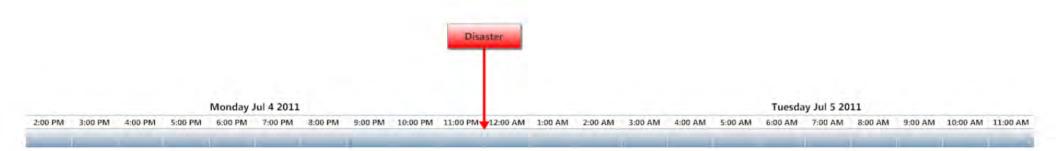


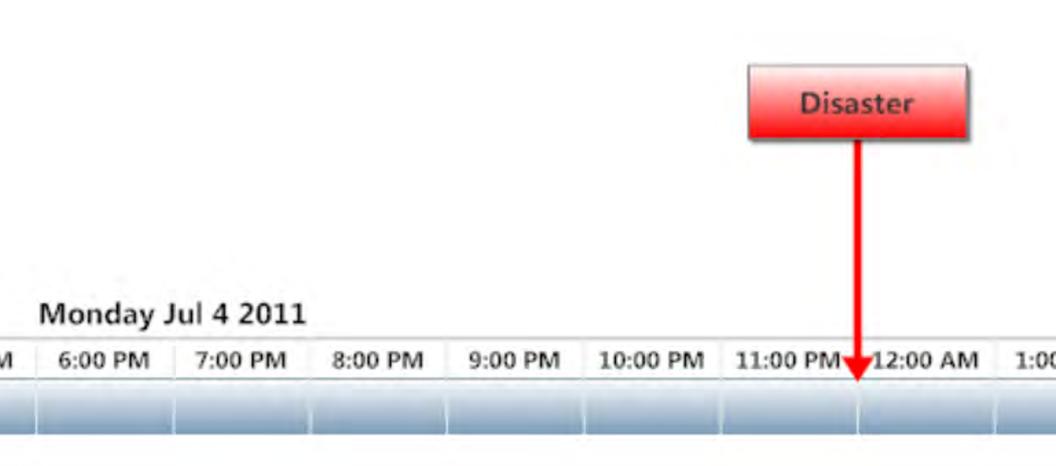


Your data center just took a mortar ...

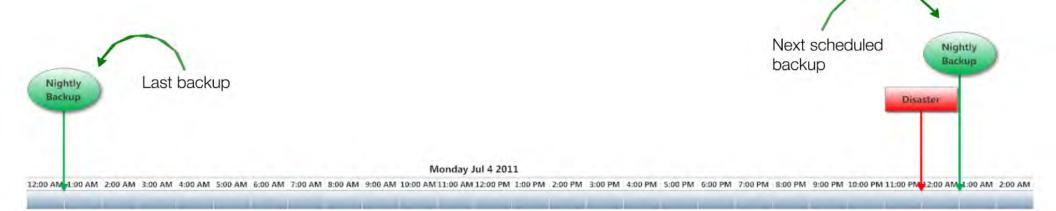


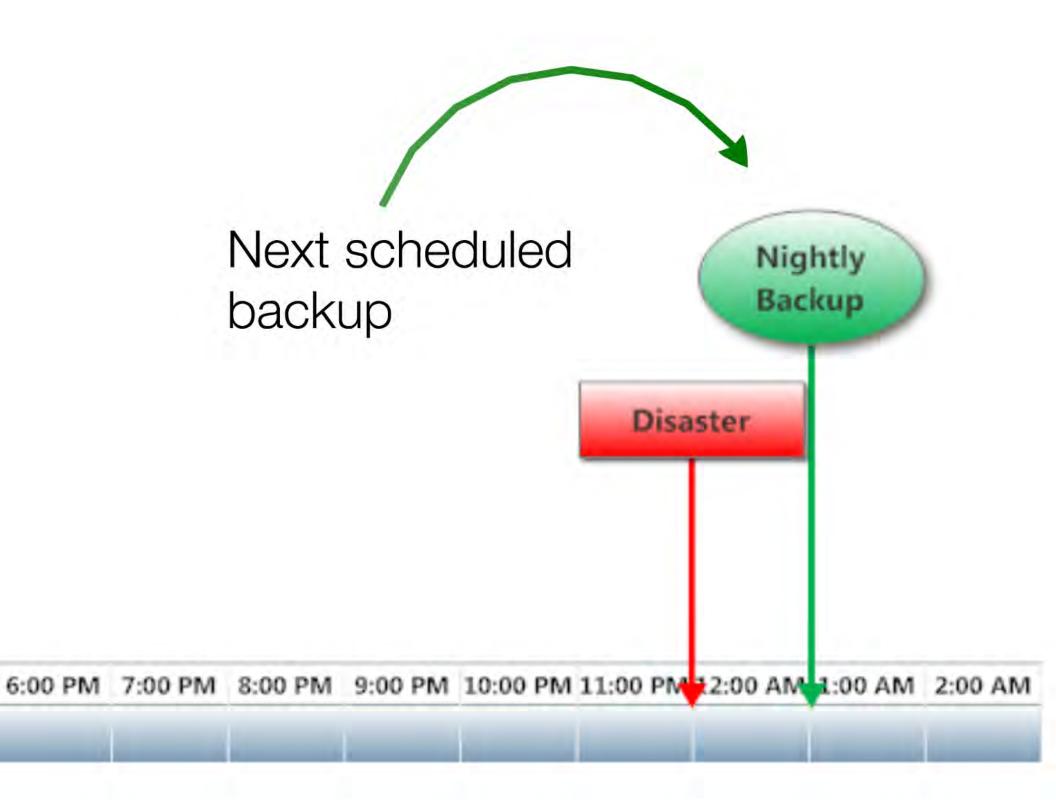
RPO (Recovery Point Objective)

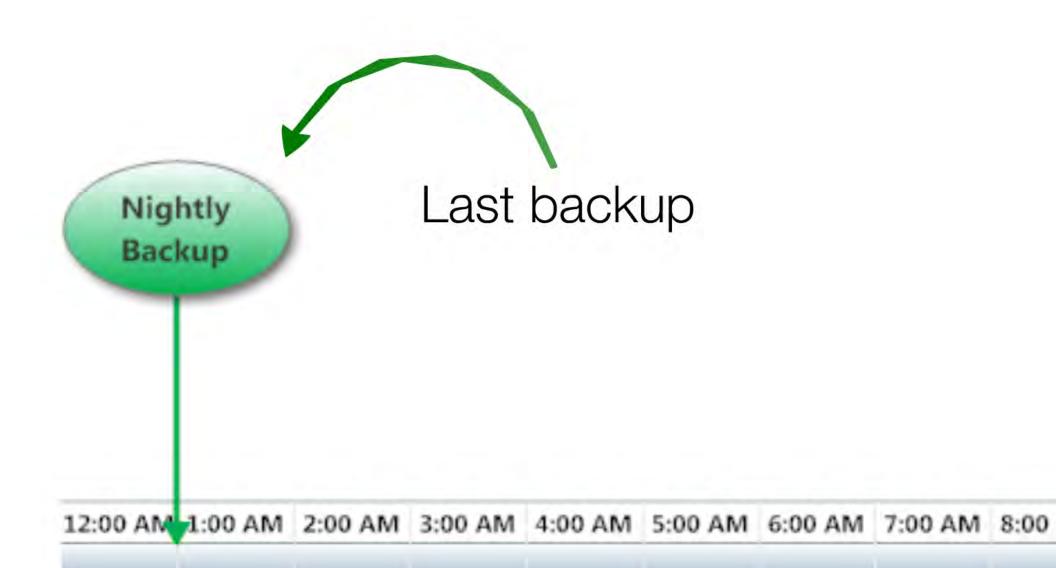




RPO (Recovery Point Objective)



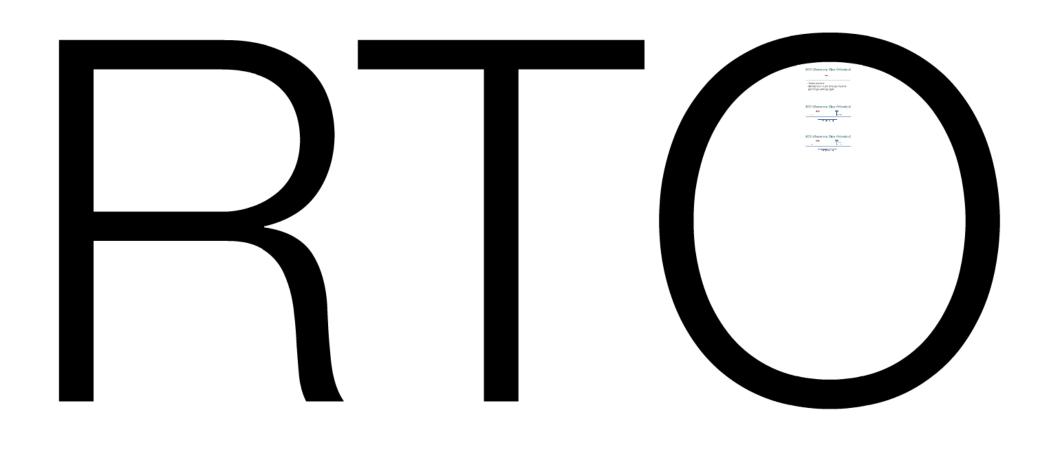




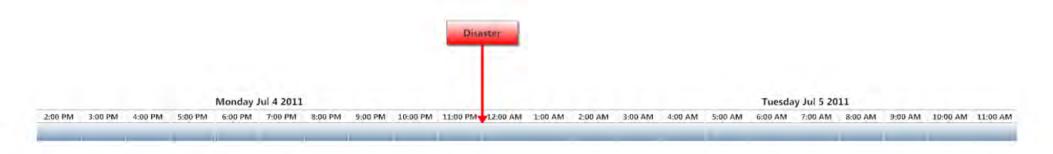
RPO (Recovery Point Objective)



RPO (24 hours)



RTO (Recovery Time Objective)



- · "looks forward"
- defines how much time you have to get things working again

RTO (Recovery Time Objective)





RTO (Recovery Time Objective)





The focus going forward 18 OM 111

the DR Process



... which is driven by RPO and RTO requirements

The focus going forward is on ...



the DR 🔯 Process

... which is driven by RPO and RTO requirements



Please Allow me A moment to preach ...



Risk analysis RAD AND RATO ARE determined up here

BCP

Implementation takes

place down here

DR Plan



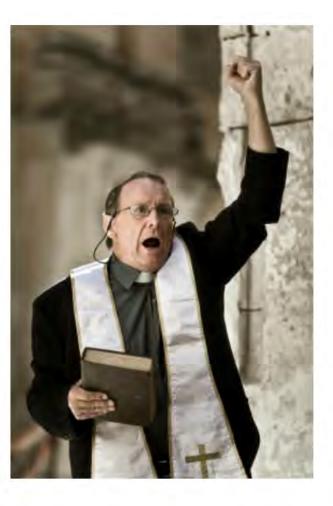
Risk analysis Business

BIA BCP RPO and RTO are determined up here

DR Plan

Technical

If you're trying to build a DR Plan without business input, you're doing it wrong.



Risk analysis Business

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RPO AND RTO Are

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BCP

DR Plan

Technical

If you're trying to build a DR Plan without business input, you're doing it wrong.

Kind of like ...

Kind of like ...

DR Plan

Kind of like ...

DR Plan Business Continuity Strategy





http://sharepointinterface.com/2009/07/08/rpo-and-rtoprerequisites-for-informed-sharepoint-disaster-recovery-planning/



The DR Process



Planning

The DR Process



Maintenance

Implementation



Building an understanding of

- The SharePoint platform itself
- Your SharePoint environment as it exists today

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Accomplished through two "D" words

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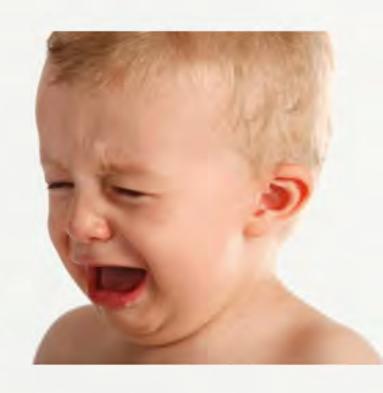
Accomplished through two "D" words

Discovery

Discovery

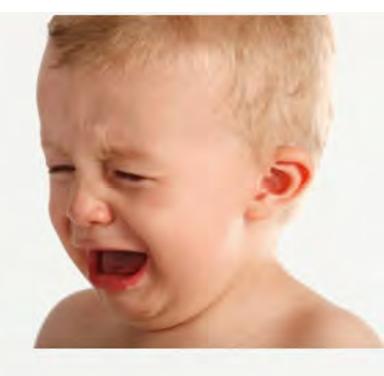
- Logical architecture
- Physical deployment
- Configuration data
- Business data (content)
- Dependencies and interfaces

Before we go too far, we should probably talk about the other "D" word Before we go too far, we should probably talk about the other "D" word



You're going to have to document your discoveries and SharePoint itself

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You're going to have to document your discoveries and SharePoint itself



Believe it or not, there are tools that can help.

Logical Architecture

- Focuses on the SharePoint's software/service components, what they do, and how they relate to one another
- · Particular attention is placed on platform elements you use

Commonly documented

- IIS application pools
- SharePoint Web applications
- Service applications (Search, BCS, Managed Metadata, etc.)
- Zones and alternate access mappings
- Web application policies
- Content databases
- Site collections
- My Sites

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Goal: show which pieces of SharePoint are in-use, how they interrelate, and how they work together

Think "birds-eye" view of logical farm components - not physical layout/usage

Physical Architecture

 Focuses on SharePoint's implementation across a set of infrastructure components and hardware

Commonly documented

- Physical servers used by SharePoint
- SQL Servers
- Storage area networks (SANs)
- Switches
- Wide area network (WAN) connections
- Firewalls
- Hardware load balancers
- Active Directory domain controllers
- Email relays and gateways

The modern monkeywrench that makes all of this more complicated:



Logical Architecture

Physical Architecture

 33% of small and mid-size businesses (SMBs) admitted that they do not back up virtual servers as often as physical servers

49% back up virtual machines weekly or monthly

37% back up virtual machines each day

Source: Acronis Global Disaster Recovery Index 2012 http://acronisinfo.com/?attachment_id=521

The modern monkeywrench that makes all of this more complicated:



Logical Architecture

Physical Architecture

Configuration Data

 Focuses on the data and settings that make SharePoint and its constituent components/pieces operate.

Commonly includes

- Farm configuration database
- Non-content service application databases
- Web.config files
- IIS7 configuration files
- Other configuration stores tied to logical architecture items

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Initially, it is more important to understand where data resides and the form it takes than to document actual settings

Commonly includes

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- Other configuration stores tied to logical architecture items

Initially, it is more important to understand where data resides and the form it takes than to document actual settings

Pay close attention to secure configuration data, configuration data that is stored in a tough-to-reach manner, and distributed configuration

Business Data

 This is data that gets created and exists within SharePoint as a result of day-to-day business If you remember nothing else, remember this:



as in "most important business data locations to protect"

Dependencies & interfaces

 These are the points where SharePoint touches other line of business systems - including other SharePoint farms.

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Some examples

- HR Data consumed through an external list using BCS
- Search that is supplied through a separate services-only SharePoint farm
- A Page Viewer web part that exposes a non-SharePoint Web application using an iframe
- InfoPath forms that pull data from (or write data to) non-SharePoint systems

Some examples

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These are important to identify for purposes of determining what is ultimately included in (and excluded from) your SharePoint DR plan

Documentation tools



Creating SharePoint diagrams

Technical diagrams for SharePoint 2013 https://technet.microsoft.com/en-us/library/cc263199(v=office.15).aspx

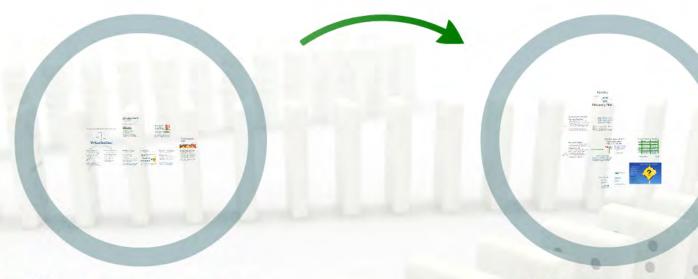
Visio stencils for IT Pro posters http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=11616

PowerShell farm documentation

Document farm configuration settings (SharePoint Foundation 2013) https://technet.microsoft.com/en-us/library/ff645391(v=office.15).aspx

Document farm configuration settings in SharePoint 2013 https://technet.microsoft.com/en-us/library/ff645391(v=office.15).aspx

Documentation Toolkit for SharePoint http://www.spdockit.com/



Assessment

Planning

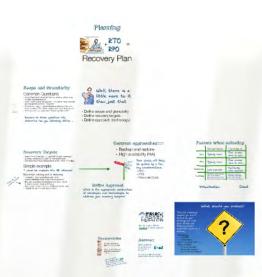
The DR Process



Maintenance



Implementation



Planning

Planning

Assessment Results



Planning

Assessment Results



Planning

Assessment Results



Recovery Plan



Well, there is a little more to it than just that

- Define scope and granularity
- Define recovery targets
- Define approach (technology)

Scope and Granularity

Scope and Granularity

Common Questions

- Do you treat your SharePoint farm as one big system or as multiple functional pieces?
- What's not in-scope for your plan? Are one or more separate (but dependent systems) included?
- How do you handle regional disasters such as earthquake, flood, or attack? The choice carries data center implications*
- Can you (or do you even want to) leverage the cloud?*

 23% of all businesses don't have an offsite backup strategy in place today

 42% rely on onsite backups to tape or disk and then take those (physically) offsite each day

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Cloud computing

- Is not a DR "magic bullet"
- Simplifies some aspects of DR (availability) but complicates others (RPO/RTO, security)
- Comes in many different shapes, forms, and hybrids (Office 365, ITaS, private cloud, etc.)

Figure out if the cloud will be part of your DR strategy early on!

Scope and Granularity

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Answers to these questions help determine how you ultimately define ...

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Recovery Targets

Recovery Targets

- Specify what to restore in SharePoint through mapping of business processes to SharePoint functional area
- Prioritized from most critical to least critical (RPO, RTO, \$\$\$)

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Simple example

"I need to restore the HR intranet"

May entail building and/or restoring:

- A SharePoint farm (baseline environment)
- Content database housing the HR site collection
- BCS and associated connections to external line-ofbusiness systems housing HR data
- Secure Store service for required BCS credential sets
- InfoPath Services for HR-related forms

These are all recovery targets · Consiness.



Desine Appropriate combination what is the appropriate combination of strategies and technologies to address your recovery targets?

Common approaches with many variations

- Backup and restore
- High availability (HA)



Your choice will likely be guided by a few key considerations:

- RPO
- RTO
- Resources (Cost)

Factors when selecting

	Backup & Restore	High Availability
RPO	Typically hours	From minutes down to zero
RTO	Typically hours	From minutes down to zero
Resources	Less expensive	Significantly more expensive
Examples	SharePoint native backups SQL Server backups Enterprise backup systems 3rd party SharePoint backups	Windows clustering Replication products SQL Server AlwaysOn Transaction log shipping

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What should you protect?



What should you protect?

Technical (recovery)
targets you select
depend on your
strategy, but most
plans include the
following critical
(technical) items at a
minimum:

Databases

- Content
- Service Apps

Solution packages (WSPs)

Documentation

- Farm configuration
- Server configuration
- Accounts & permissions



FREQUENTLY ASKED OUESTION

How do I get a list of everything I should protect?

Answer:

There is no definitive "list of everything." No two SharePoint farms (or DR plans) are the same.





- · Content databases
- · Central Admin content DB
- · Farm Configuration database
- Service Applications / SSPs
- Search



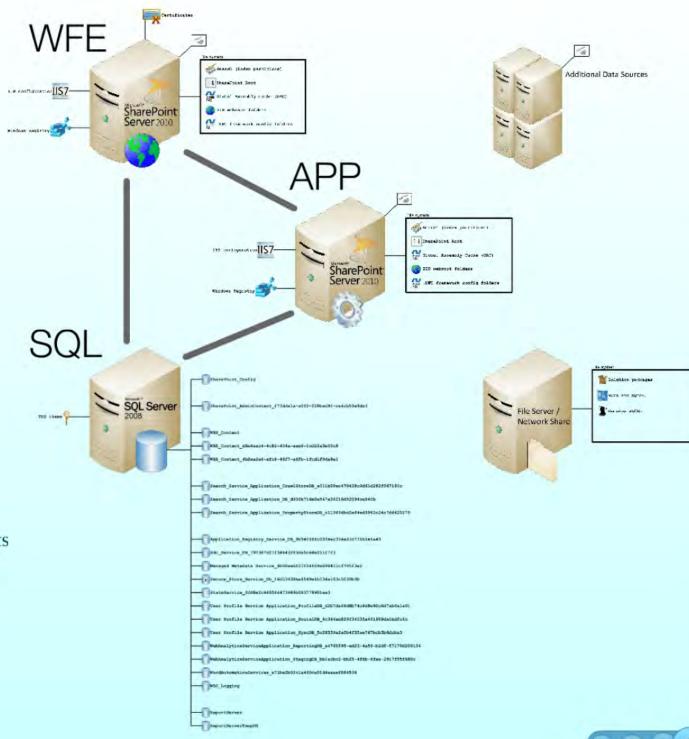
Related targets "important to remember"

- Solution packages
- SharePoint Root
- IIS Configuration
- Certificates
- · IIS web root
- · GAC
- Registry
- · Bits and bytes



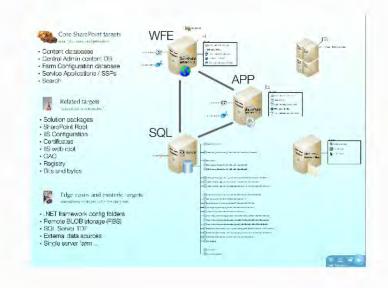
Edge cases and esoteric targets sometimes confused with the dark arts ...

- · .NET framework config folders
- Remote BLOB storage (RBS)
- SQL Server TDE
- External data sources
- Single server farm ...



Answer:

There is no definitive "list of everything." No two SharePoint farms (or DR plans) are the same.



You'll have to build your own list based on what you use in your farm

Documentation



Of course you need to document your DR plan!

Documentation of the plan spans this phase and the next phase ...

Mal !!

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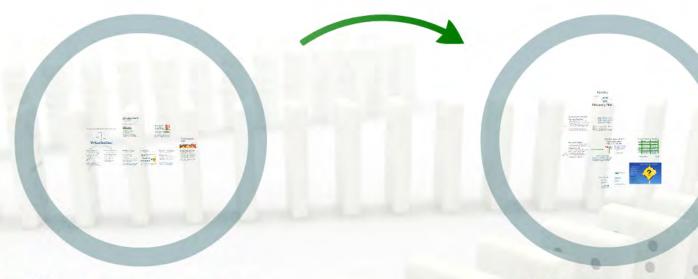
Let's be honest:

documentation spans every

phase of the DR process.

There's a focus on it here

and in the next phase, though.



Assessment

Planning

The DR Process



Maintenance



Implementation



Where the rubber meets the road

Where the rubber meets the road





Assemble resources

FREQUENTLY ASKED OUESTION

How do I write A recovery plan?

How do I write A recovery plan?

Writing a recovery plan



Start by talking to those in your organization who have some responsibility for business continuity.

How do I write A recovery plan?

Writing a recovery plan

Characteristics of a good recovery plan

A recovery plan:

Writing a recovery plan

Characteristics of a good recovery plan

 The plan should address a discrete system or subsystem

Writing a recovery plan

Characteristics of a good recovery plan

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- Includes any post-recovery notes directing personnel to further actions or plans that are coupled (implicitly or explicitly) to the current recovery plan

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Piece of cake, right?

Not really.

Recovery plans are living documents



Iterate Iterate Iterate Iterate

...

Where the rubber meets the road





Assemble resources



Assemble resources ...

Some things to consider

Software

- Licenses
- Install media

Physical storage

- Documents/plans/lists/etc.
- Secure or sensitive items

Hardware

- SharePoint Servers
- SQL Servers
- Switches
- Storage/SANs
- Firewalls
- AD controllers/appliances
- DNS servers/appliances
- Load balancers

Facilities (if required)

- Rent/buy space
- Data center build-out
- WAN connectivity
- HVAC
- Fire suppression
- · (Voice) communications
- Security
- Backup generators/power

Don't lose sight





Your SharePoint recovery plans should be tying into one or more bigger BCPs

- Communications plan tie-ins
- Criteria for DR plan activation
- Clear documentation of (manual) workarounds for non-restored functionality
- Integration points with other DR plans



Assessment

Planning

The DR Process



Maintenance

Implementation



Maintenance

Maintenance

The part that many of us wish would simply go away.



What's included?

- Exercises that test and validate DR plans
- Updates to your plans as SharePoint environments change
- Budgeting for the changes that will happen

PASS TO TESTING



How testing can help you

- Identify gaps in plans so that you can address them before a disaster
- Validate that you can actually hit RPO and (especially) RTO targets
- With repetition, you can reduce your RTO (practice makes perfect!)

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- With repetition, you can reduce your RTO (practice makes perfect!)

Bottom line: without testing you'll never know if your recovery plans actually work

Updating Your Plan

As your SharePoint environments change, so too must your recovery plans

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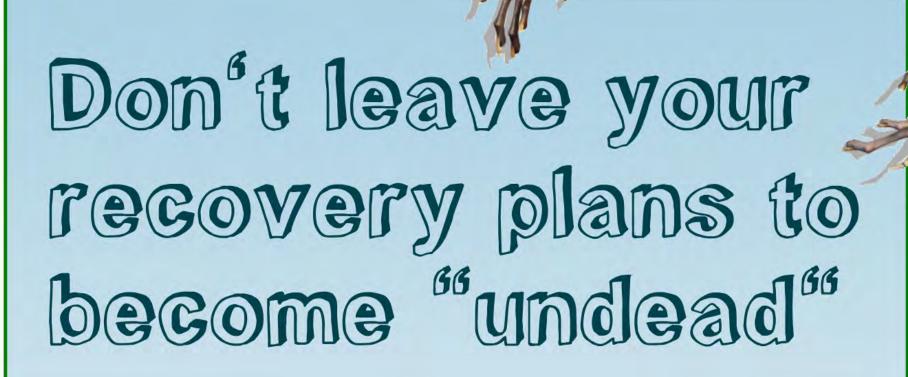
- RPO and RTO may change
- SharePoint farms grow and evolve
- SharePoint used for new purposes
- Offsite DR facilities change

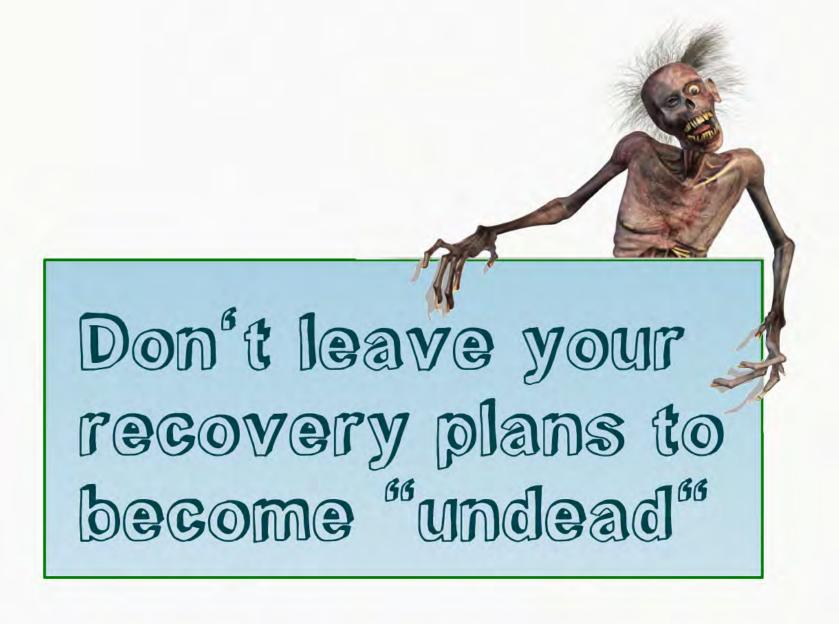
Updating Your Plan

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Your DR plans are living documents ...





They don't "go away" because you abandon them; they just take on an un-life of their own ...

Budgeting





Both time and money

Time

- Carry out DR tests (personnel, facilities time, business downtime)
- Review, maintain and update DR plans
- Review changes to SharePoint farms
- Audit plans with an eye towards compliance with any regulations



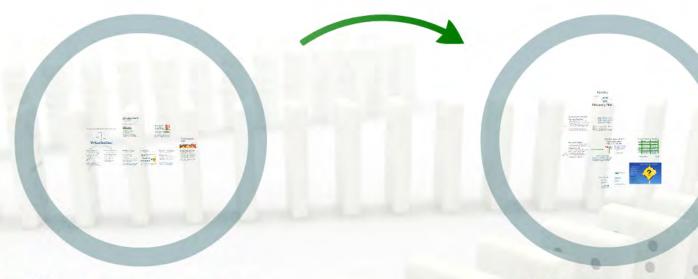
Both time An



ud money

Money

- Salary costs associated with dedicating time to DR activities
- Costs associated with offsite facilities
 - Recurring licensing costs*
- Costs associated with independent auditing of systems and DR plans



Assessment

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Maintenance



Implementation

The dirty secret

Nobody gets this "right" the first time; that's why it's a continuous process





An important resource

NIST Special Publication 800-34 Rev. 1

Contingency Planning Guide for Federal Information Systems

Marianne Swanson Pauline Bowen Amy Wohl Phillips Dean Gallup David Lynes

May 2010



U.S. Department of Commerce Gary Locke, Secretary

National Institute of Standards and Technology Patrick D. Gallagher, Director

NIST Special Publication 800-34, Rev. 1, Contingency Planning Guide for Federal Information Systems http://www.nist.gov/manuscript-publication-search.cfm?pub_id=905266

Wrap-up

- · Remember the order of operations:

 Risk Analysis --> BIA --> BCP --> DR Plan
- · RPO and RTO drive many of the DR planning decisions you'll make
- · No two SharePoint environments are alike; no two DR plans are identical
- · Recovery plans are living documents that you'll constantly test and revise

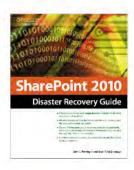
Sean P. McDonough



Twitter: @spmcdonough

Blog: http://SharePointInterface.com

About: http://about.me/spmcdonough



SharePoint 2010 Disaster Recovery Guide http://tinyurl.com/SPDRGuide2010



SharePoint 2007 Disaster Recovery Guide http://tinyurl.com/SPDRGuide2007